

PSPS

18 APR 1980

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MEMORANDUM FOR: [REDACTED]

ODP Member, Agency Energy Committee

FROM:

James H. McDonald
Director of Logistics

SUBJECT:

Heat Generated by Computers

REFERENCES:

- A. Memo for C/AEC/OL, from ODP Mbr AEC,
dtd. 30 Jan 80, same subj: (ODP-0-127;
OL 0 0577)
- B. Memo for DC/RECD/OL, from C/RECD/OL,
dtd. 25 Mar 80, same subj: (OL01424)

1. -The reference raises the question, "Can the heat generated by computers be used to at least warm up the 'hot' water if the boiler system is discontinued?" The question is a sub-set of a more global consideration -- How can the nation utilize heat that is thrown away, wasted? Waste heat exists because of the past availability of cheap energy and, because it does exist, it may now be collected, concentrated and used, but at considerable expense. As you know, the RE&CD/OL and the GSA are working to prioritize projects to conserve energy, including the use of waste heat. The priorities for projects are necessary because energy saving opportunities are legion in numbers, but resources are finite, and presently small.

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2. Reference B specifically addresses [REDACTED] suggestion and identifies that it is not economical or practical to consider computer "waste" heat for our domestic hot water at this time. This suggestion, along with numerous other suggestions concerning energy conservation, will be discussed at the next committee meeting.

/s/ James H. McDonald

James H. McDonald

Attachments:

- A. Reference A
B. Reference B

OL 0 0577a

VII. Employee Suggestions - Energy Conservation

A. No. 80-211 - Energy Conservation at Headquarters and other CIA Federal Buildings (window shutters). This suggestion proposed installing styrofoam/fiberglass shutters to reduce the loss of heat during the week when offices are normally unoccupied. The indepth evaluation of this suggestion concluded by stating that the use of shutters over double or triple glazing blinds, draperies, etc., would depend on the attitude of our personnel at that time, their cooperativeness, and the relative costs involved and that the time for shutters as a retrofit option has not come, but may be here in the future.

B. Suggestion from ODP - Use of Heat Grnerated by Computers. Evaluation of this suggestion concluded that it is not economical or practical to consider computer "waste" heat for domestic hot water at this time.

VIII. GSA-Leased Vehicle Program

The Agency presently has leased GSA vehicles with approximately another 5 in process.

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IX. Energy MBOs

ENERGY MBOs

P&PD - 1. Explore feasibility of using scrap paper as an alternative fuel.

RECD - 1. Reduction of hot domestic water from June start date to October is estimated to be about \$2,000.

2. Energy saving for securing the perimeter fans from June through September is estimated to be approximately \$56,000.

3. Explore:

(a) Use of combustible waste, particularly hammermill and somat, for energy source.

(b) Enclosure of loading docks.

(c) Timers or controls on utility systems.

4. Use of small boilers for summertime load.

SD - 1. Replace two gasoline power trucks with more fuel efficient diesel

powered trucks. (Check?)

2. Order trucks equipped with air deflectors and fan clutches which are more fuel efficient.

LSD - 1. Increase awareness of public transportation facilities (Metrobus, Metrorail) available for use by Agency employees.

2. Procure only the most fuel-efficient vehicles to ensure that the GSA-imposed fleet average of 26 mpg for FY-1981 is attained.

X. Reporting Automotive Fuel Consumption

In response to Presidential directives to reduce the use of automotive fuels, all headquarters and domestic components having Agency-assigned and/or GSA-leased vehicles were requested to report to the Plans and Programs Staff, OL, quarterly mileage and fuel consumption data beginning with the quarter ending 30 June 1980. The objective of compiling this data is to quantify mileage and fuel consumption data and establish the baseline that is necessary for managerial and reporting purposes.

The data received is fed into a computer which translates it graphically into a bar chart printout which will be returned to each activity as a visual reminder of their fuel conservation efforts. There is a provision to record this vital fuel consumption and mileage data in the Vehicle File of the Property Accountability Module of LIMS.

We can anticipate further restrictive measures affecting automotive fuels such as the recent E.O. 12261 of 5 January 1981, which directed Federal Agencies to procure gasohol as a substitute motor fuel whenever feasible. It further required that relevant gasohol usage data be available to DOE upon request which means that statistical data concerning gasohol consumption must be maintained. Both LSD and SD/CD have been alerted to this new gasohol reporting requirement.

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☐ SECRET☐ CONFIDENTIAL☐ SECRET

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Use of Heat Generated by Computers

FROM:

C/MS/ODP
2D0105, Hqs.

EXTENSION

NO.

DATE

TO: (Officer designation, room number, and building)

DATE

RECEIVED

FORWARDED

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1. C/AEC/OL
3F15C, ☐2. 2002. ☐

3. C/P+PS/OL

4.

5. DC/RECD

6. C/HEB

7. C/P+PS/OL

8.

9.

10.

11.

12.

13.

14.

15.

5 FEB 1980

action & response

☐

(RECD)

Do you want

to Answer This
Suggestion?

566

Please comment & return

RECD

C

DC

EX

SA

C/REB

RO

C/FEngB

PE

C/HEB

PE

FILE

13 FEB 1980

OL U 0577

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FORM 5-62

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